From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Bec's Per/Pig 07 Jan 2005

To:

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

12.03.2004

Applicant's or agent's file reference

251e-1 CW2WO

IMPORTANT NOTIFICATION

International application No.

PCT/IB 03/01367

International filing date (day/month/year)

Priority date (day/month/year)

11.04.2003

08.07.2002

Applicant

RANBAXY LABORATORIES LIMITED

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Ambroa, J.R.

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Form PCT/IPEA/416 (January 2004)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			ent's file reference	FOR FURTHER A	CTION		n of Transmittal of International camination Report (Form PCT/IPEA/416)
International application No. International fill PCT/IB 03/01367 11.04.2003				International filing date 11.04.2003	(day/mon	th/year)	Priority date (day/month/year) 08.07.2002
i			ent Classification (IPC) or b C07D209/52	oth national classification	and IPC		
Applica RANI		Y LA	BORATORIES LIMIT	ED			
			national preliminary exa and is transmitted to the				rnational Preliminary Examining
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.						
[This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
7	These annexes consist of a total of sheets.						
3. 7	This	repor	t contains indications re	lating to the following i	tems:		
ı	Ì	\boxtimes	Basis of the opinion				
ı	l l		Priority				
i	Ш	\boxtimes	Non-establishment of o	opinion with regard to r	novelty, in	ventive step a	nd industrial applicability
ľ	V		Lack of unity of inventi-	on			
\	V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
\	V۱		Certain documents cite	ed			
			Certain defects in the i				
١	/III		Certain observations o	n the international app	lication		
Date of	Date of submission of the demand				Date of	completion of this	s report
05.02.	05.02.2004				12.03.2004		
Name and mailing address of the international preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				ed Officer ne No. +49 89 20	399-		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/01367

l.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages								
	1-3	32	as originally filed						
	Cla	aims, Numbers							
	1-2	26	as originally filed						
2.	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.								
	These elements were available or furnished to this Authority in the following language: , which is:								
	☐ the language of a translation furnished for the purposes of the international search (under Rule 23.								
	☐ the language of publication of the international application (under Rule 48.3(b)).								
		the language of a translation furnished for the purposes of international preliminary examination (und Rule 55.2 and/or 55.3).							
3.	Wit inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
•		contained in the international application in written form.							
		\square filed together with the international application in computer readable form.							
		☐ furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosur in the international application as filed has been furnished.							
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	The	amendments have re	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this						
6.	Add	itional observations, i	f necessary:						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/01367

131	. No	n-establishment of opinion v	vitn re	gara to nove	eity, inventive step and industrial applicability			
1.		The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
	☐ the entire international application,							
☑ claims Nos. 8-9 (industrial applicability)								
		because:						
 the said international application, or the said claims Nos. 8-19 relate to the following subject matter does not require an international preliminary examination (specify): see separate sheet the description, claims or drawings (indicate particular elements below) or said claims Nos. are so that no meaningful opinion could be formed (specify): 								
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful op- could be formed.							
	□ no international search report has been established for the said claims Nos.				ned for the said claims Nos.			
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide a or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:						
the written form has not been furnished or does not comply with the Standard.				not comply with the Standard.				
		the computer readable form has not been furnished or does not comply with the Standard.						
٧.	 V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 							
1.	Statement							
	Nov	elty (N)	Yes: No:	Claims Claims	1-26			
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-26			
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-7, 20-26			

Form PCT/IPEA/409 (January 2004)

2. Citations and explanations

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 8-19 relate to subject matter considered by this Authority to be covered by the provisions of Rule 67.1 (iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject matter of these claims, cf. Article 34(4)(a)(i) PCT.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1- Reference is made to the following documents:

d1:EP-A-0863141

d2:WO-A-02051841

d3:WO-A-0204402

2- Novelty

Present claims comply with the requirements of novelty of Art. 33.2 PCT.

Present compounds of formula (I) differ from the compounds of d1 and d2 at least on account of the azabicyclo[3.1.0] ring.

The compounds disclosed in d3 contain a group A which may be constituted by an azacyclic ring. However, this document does not disclose any azabicyclo[3.1.0] derivatives.

Accordingly, present compounds of formula (I) are novel.

Hence, claims 1-26 are novel in that they concern the compounds of formula (I).

- 3- Inventive step
- 3.1-The applicant seems to have set himself the task of providing novel antagonists of the muscarinic receptor to be used for treating respiratory, urinary and gastrointestinal diseases.

Documents d1 to d3 relate to compounds having the same or similar use of present compounds. Considering the chemical structures of the compounds disclosed in these documents, it is considered that d1 represents the closest state of the art.

3.2- The results disclosed in Table II of the application show that present compounds

INTERNATIONAL PRELIMINARY

International application No. PCT/IB 03/01367

EXAMINATION REPORT - SEPARATE SHEET

indeed have affinity for the muscarinic receptors.

Accordingly, it appears that the objective technical problem solved by the invention may be seen in the provision of further antagonists of the muscarinic receptor useful for treating respiratory, urinary and gastrointestinal diseases.

3.3- The compounds of d1 differ from present compounds at least in that they lack the azabicyclo[3.1.0] ring and on account of the substituent CH2R4 which is not present in the compounds of the present invention.

It is observed that none of the cited documents disclose compounds containing the azabicyclo[3.1.0]. Thus, it appears that the skilled person faced with the above defined technical problem would not arrive to the present compounds in an obvious manner. Thus, present claims are considered to comply with the requirements of Art. 33.3 PCT.

3- Industrial Applicability

For the assessment of the present claims 8-19 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.